	in the second se		PCT/AU2004/	001675
A.	CLASSIFICATION OF SUBJECT MATTER		· · · · · · · · · · · · · · · · · · ·	
nt. Cl. <sup>7</sup> :	C12N 15/24, C12N 15/38, C12Q 1/68	•		
	International Patent Classification (IPC) or to both	national classification and IPC		
	FIELDS SEARCHED		·	
•	mentation searched (classification system followed by cl	assification symbols)		
EE ELECT	RONIC DATABASES	·		<del></del>
	searched other than minimum documentation to the external RONIC DATABASES	ent that such documents are include	d in the fields search	ed
	base consulted during the international search (name of	data base and, where practicable, se	earch terms used)	
-	PLUS, MEDLINE (IL-10, latent, virus) K, DGENE (SEQ ID NO: 1, SEQ ID NO 10)	•		•
	DOCUMENTS CONSIDERED TO BE RELEVANT		<del></del>	
	· · · · · · · · · · · · · · · · · · ·	•		
Category*	tegory* Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.
X	Jenkins, C. et al (2002) "Human cytomegalo expressed during both experimental and nature College of Health Sciences and Medical Forto Society 3, 18-SEPT-2002 to 19-SEPT 200 poster/mini-poster number 22-9.	iral latent infection of myelo indation Research Conference	id cells" 3rd ce: From Cell	1 to 10, 13 to 53
Xu, Z-G et al (2001) "The latency pattern of Epstein-Barr virus infection and viral IL- 10 expression in cutaneous natural killer/T-cell lymphomas" British Journal of Cancer 84(7): 920-925. (The whole document)				1, 3-6, 8-10, and 13-53
X Miyazaki, I et al (1993) "Viral Interleukin 10 Is Growth Transformation by Epstein-Barr Virus" 187: 439-447.		O Is Critical for the Induction us" <i>The Journal of Experime</i>	of B Cell ental Medicine	1, 3-6, 8-10, 13-53.
X F	Further documents are listed in the continuation	n of Box C X See pa	atent family anne	×x
'A" docume not cons 'E" earlier a internati	sidered to be of particular relevance country pplication or patent but published on or after the "X" do ional filing date al	ter document published after the internation of the invention but cited to inderlying the invention ocument of particular relevance; the claim cannot be considered to involve an interpretable ocument of particular relevance; the claim ocument of particular relevance; the claim ocument of particular relevance; the claim of the claim ocument of particular relevance; the claim of the claim of the claim of the claim ocument of particular relevance; the claim of the claim o	understand the principl imed invention cannot ventive step when the d	e or theory be considered novelocument is taken
or which another O" docume or other	h is cited to establish the publication date of in citation or other special reason (as specified) sunt referring to an oral disclosure, use, exhibition means "&" do	pourment or particular relevance; the cla lyolve an inventive step when the docur ich documents, such combination being noument member of the same patent far	ment is combined with a convious to a person sk	one or more other
but later	nt published prior to the international filing date r than the priority date claimed	т .		
	ual completion of the international search	Date of mailing of the internatio	•	
2 January 2	ling address of the ISA/AU	2 FEB Authorized officer	<u> </u>	
USTRALIAN O BOX 200,	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA :: pct@ipaustralia.gov.au	ANDREW ACHILLEOS		
	.i., 7.i 7	(00) (000 0000		

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# INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001675

C (Continuati	DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages				
P/X	Jenkins, C. et al (2004) "A Novel Transcript with Homology to Human Interleukin-10 Is Expressed during Latent Human Cytomegalovirus Infection" <i>Journal of Virology</i> 78(3): 1440-1447.				
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001675

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1. Claims Nos.:						
because they relate to subject matter not required to be searched by this Authority, namely:						
2. X Claims Nos.: 11, and 12						
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:						
The potential vIL-10 ligands encompassed by these claims make up such a large number of compounds that it is not economically viable to search these claims.						
3. Claims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)						
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)						
This International Searching Authority found multiple inventions in this international application, as follows:  See attached Supplemental Box "Continuation of Box III" below						
occ attached supplemental 2011 Continuance of						
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.						
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:						
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
Remark on Protest						
No protest accompanied the payment of additional search fees.						

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001675

### Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

### Continuation of Box III:

The feature common to all the claims is: a viral IL-10 (vIL-10) homologue expressed during the latent phase of infection by a virus of the herpesvirideae group. However, vIL-10 that is expressed during the latent phase of infection by a virus of the herpesvirideae group was known at the priority date (see Jenkins, C. et al (2002), Z-G Zu et al (2001) and I Miyazaki et al (1993)). Therefore the claims lack unity a posteriori, and can be grouped as follows:

- Group 1: Claims 1 to 10, and 26. Nucleic acids, encoded peptides, and vectors/host cells containing vIL-10 that is expressed during the latent phase of viral infection of the herpesvirideae group.
- Group 2: Claims 11 to 18, 21 to 29. Ligands and methods of detecting ligands of vIL-10 that is expressed during the latent phase of viral infection of the herpesvirideae group.
- Group 3: Claims 19 to 21, 28 to 38, 52, and 53: methods of diagnosing/screening for disease using vIL-10 that is expressed during the latent phase of viral infection of the herpesvirideae group.
- Group 4: Claims 25, 39, and 41 to 45: methods of treatment using vIL-10 that is expressed during the latent phase of viral infection of the herpesvirideae group.
- Group 5: Claims 46 to 48, and 51: methods of cleansing biological samples using vIL-10 that is expressed during the latent phase of viral infection of the herpesvirideae group.

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU2004/001675

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member				
wo	0116153	AU	73461/00			
wo	02057437	EP	1356062	US	6692954	

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX